



# DET NORSKE VERITAS

## TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. **F-20704**

This is to certify that the  
**Combined Jet/Spray Water Nozzle**

with type designation(s)  
**Unifire Type V**

Issued to  
**Unifire AB**  
**KUNGÄLV, Sweden**

is found to comply with  
**Det Norske Veritas' Interpretation of SOLAS 1974 Convention as Amended**  
**Det Norske Veritas' Rules for Classification of Ships and Mobile Offshore Units**

Application  
**The types V12, V14, V16, V18 and V20 are approved throughout the fire line except for hose reels in accommodation.**  
**See application/limitation on page 2.**

This Certificate is valid until **2018-06-30**.

Issued at **Høvik** on **2014-02-18**

DNV local station: **Gothenburg**

Approval Engineer: **Rolf Emilsen**

for **Det Norske Veritas AS**



Digitally Signed By: Hoff, Øyvind  
Location: DNV Høvik, Norway  
Signing Date: 18.02.2014 , on behalf of

**Petter Langnes**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.  
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.

### **Product description**

"Unifire Type V"

is composed of multipurpose nozzle of opening sizes: Ø 7, 10, 12, 14, 16, 18 or 20 mm

Manufactured at the premises of Holmgrens Metall AB, Gnosjö, Sweden.

### **Application/Limitations**

Each product is to be supplied with its manual for installation, use and maintenance.

Types V7 and V10 are not to be used for fire hoses as required by SOLAS (Chapter II-2, Reg.10, item 2.3.3). They may be used in fire line installed as supplementary equipment and onboard vessels with DNV GL class Notation F-A.

### **Type Approval documentation**

Certification in accordance with Standard for Certification Note No. 1.2, Type Approval, January 2013.

Test report No. 7813.511, dated 15th August 1979 and 7813.511D, dated December 1979 from SP, Borås, Sweden.  
Function test GOT 010210 dated 24 September 2001 from DNV Gothenburg.

### **Tests carried out**

Tested according to EN 671-2:2001.

### **Marking of product**

The product or packing is to be marked with name of manufacturer and type designation.

### **Periodical assessment**

DNV's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Standard for Certification No. 1.2 Type Approval Item 4.